

Fig. 1A

SUS1	SEQ ID NO: 1	ENGIL R KWISRFDVWPYL	native
SUS2	SEQ ID NO: 3	ENGIV R KWISRFEVWPYL	native
SS2	SEQ ID NO: 10	GIV R KWISRFEVWPYL KK	active
SS11	SEQ ID NO: 11	ILRVPFRTENGIV R KWI (NH ₂)	inactive
SS12	SEQ ID NO: 12	GIV R KWISRFEVWPYL (NH ₂)	active
SS15	SEQ ID NO: 13	GIV R KAISRFEVAPYL (NH ₂)	less active
SS16	SEQ ID NO: 14	SRFEVWPYL (NH ₂)	less active
SP3	SEQ ID NO: 18	N RR ISSVE N N DKK (NH ₂)	inactive
NR11	SEQ ID NO: 15	GPTL K RTASTAFMNTTS KK	inactive
SP26	SEQ ID NO: 16	GRM R RIATVEM KK	inactive
SS1	SEQ ID NO: 9	GDRVLSRLHSVRERIGK	inactive
ACTIN	SEQ ID NO: 19	EHGIVTNWDDMEKIWHHTFY	consensus

Double basic cluster: black box; e.g. **KK**

Possible region of specificity: underlined or boxed

Substitutions: bold

Fig. 1B

EN	GIVRK	WI	SRFEVW	PYL	KK
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X_4 X_3 X_2 X_1 X_5 X_6

SEQ ID NO.		SEQUENCE
SEQ ID NO:22	X_1	SRFEVW
SEQ ID NO:17	X_2-X_1	WI SRFEVW
SEQ ID NO:14	X_1-X_5	SRFEVW PYL
SEQ ID NO:23	$X_2-X_1-X_5$	WI SRFEVW PYL
SEQ ID NO:12	$X_2-X_1-X_5$	GIVRK WISRFEVWPYL
SEQ ID NO:10	$X_3-X_2-X_1-X_5$	GIVRKWISRFEVWPYL KK
SEQ ID NO:24	$X_4-X_3-X_2-X_1-X_5-X_6$	EN GIVRKWISRFEVWPYLKK

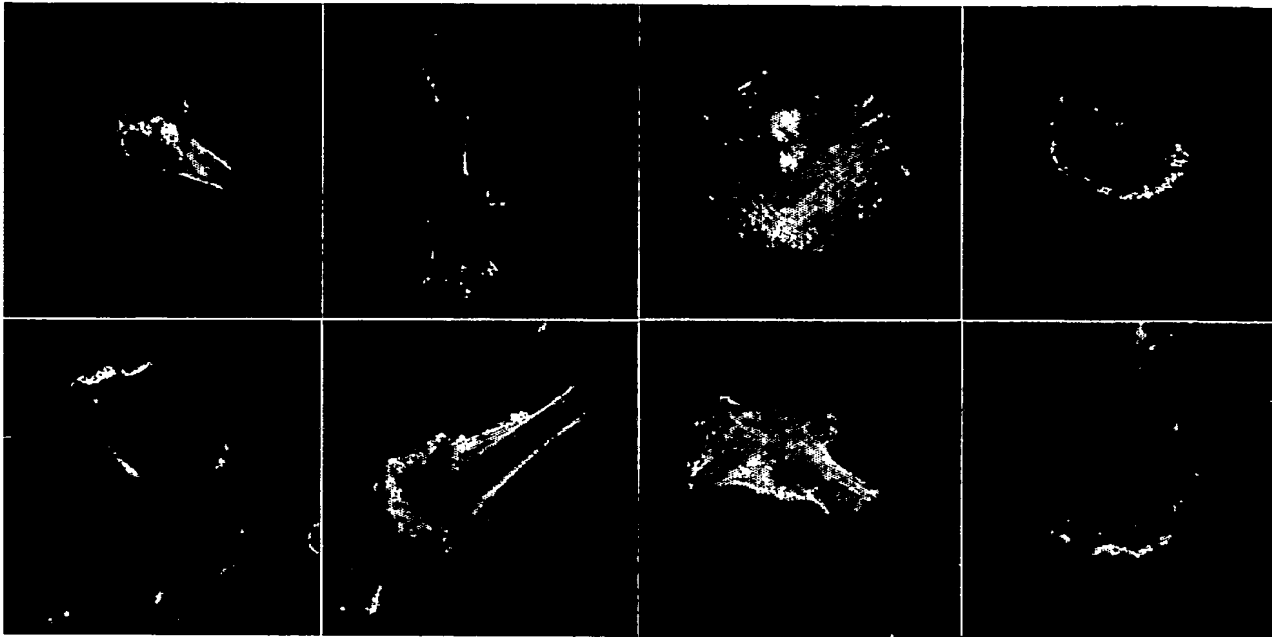
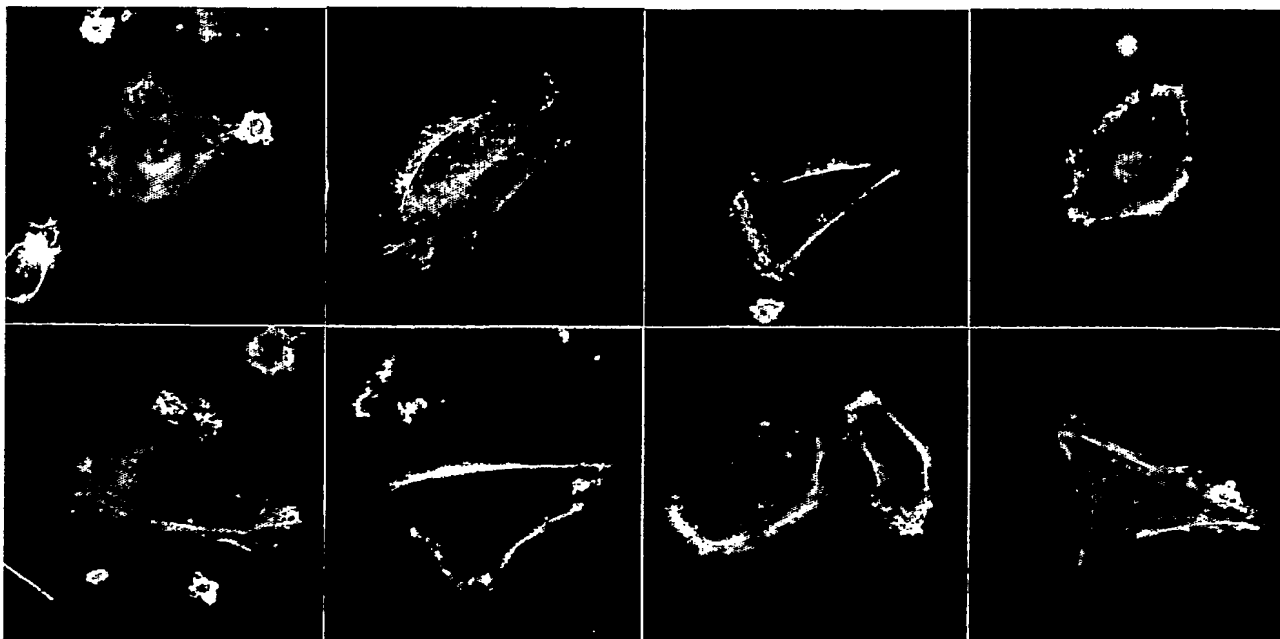
Fig. 2**A****B**

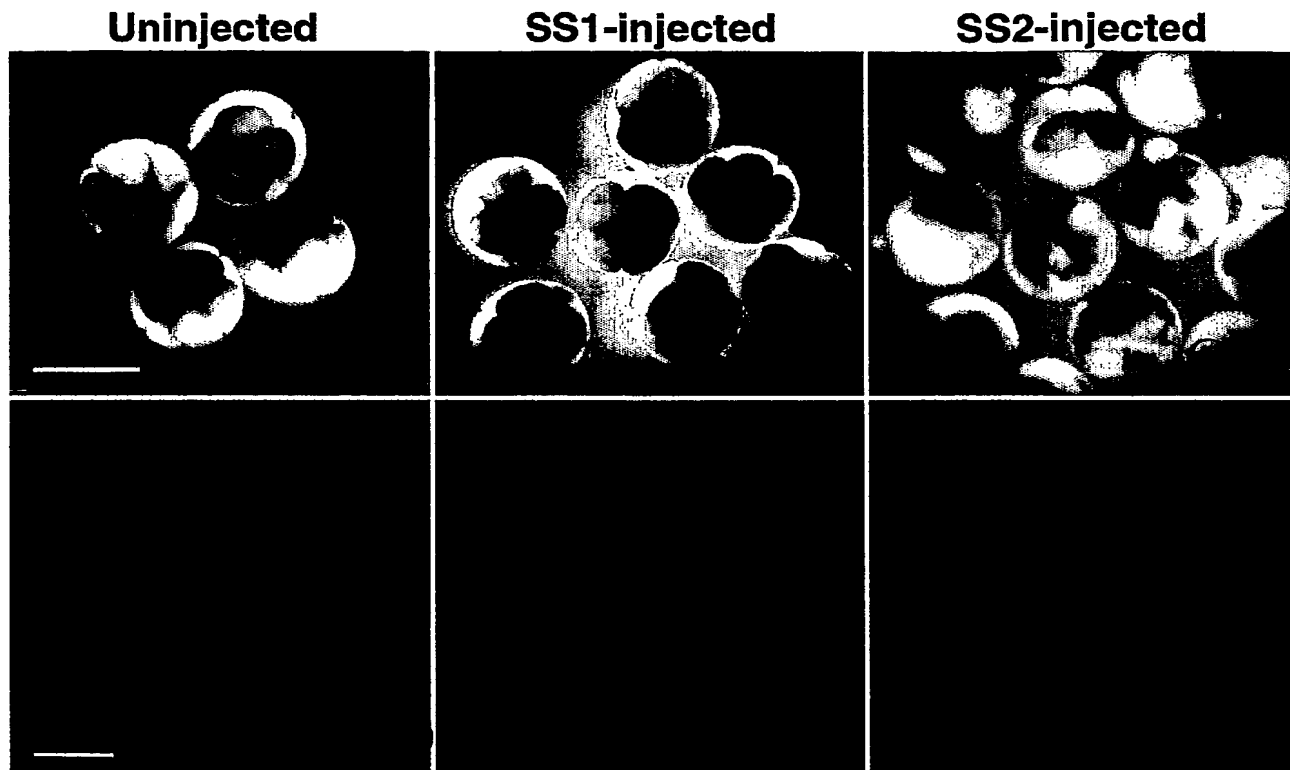
Fig. 3

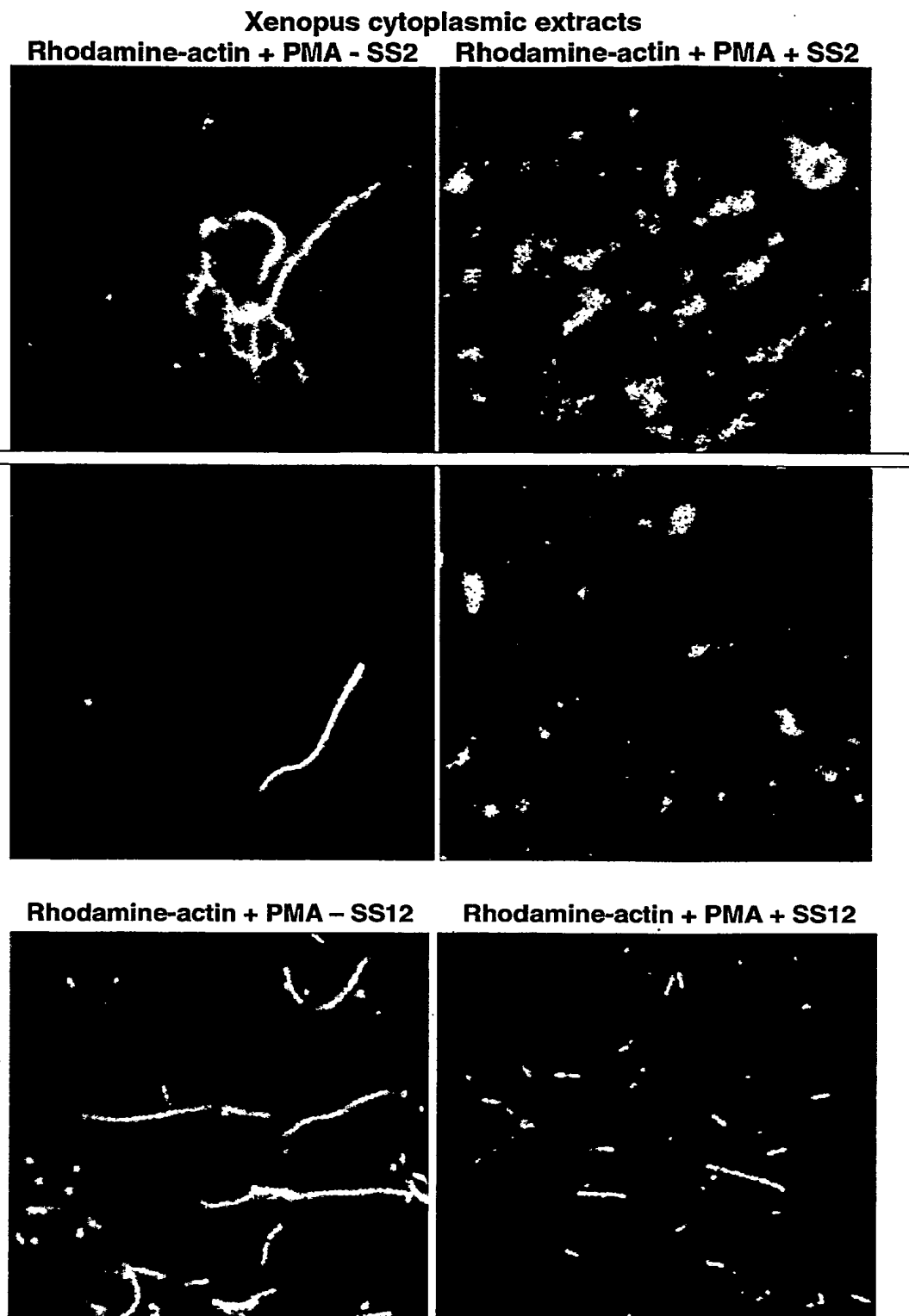
Fig. 4

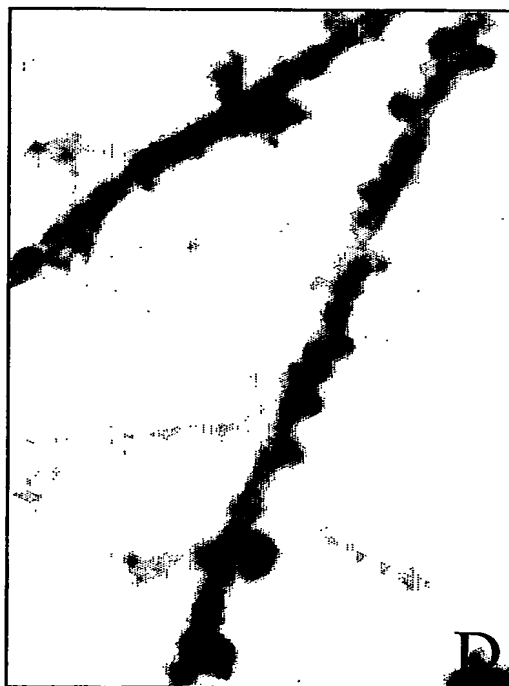
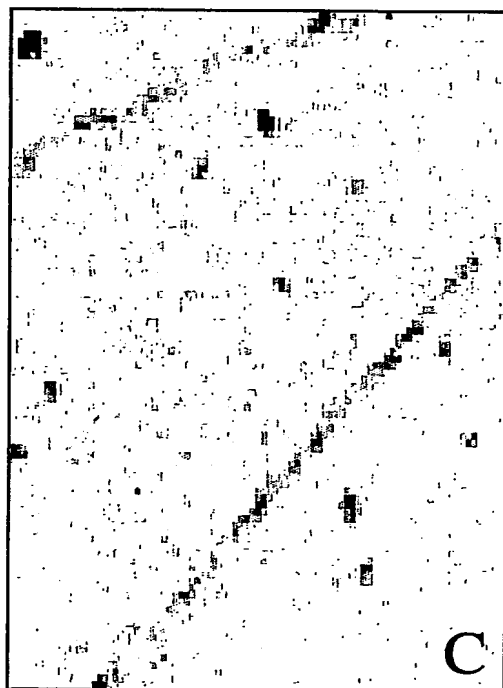
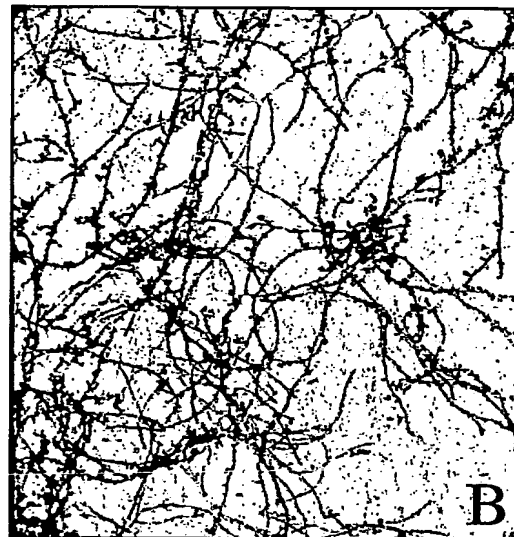
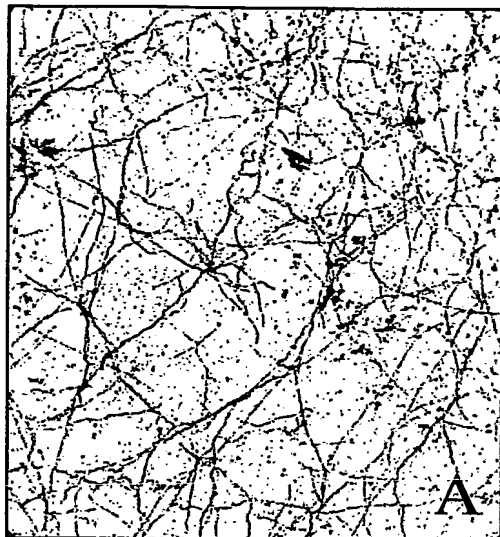
Fig. 5**control****SS12**

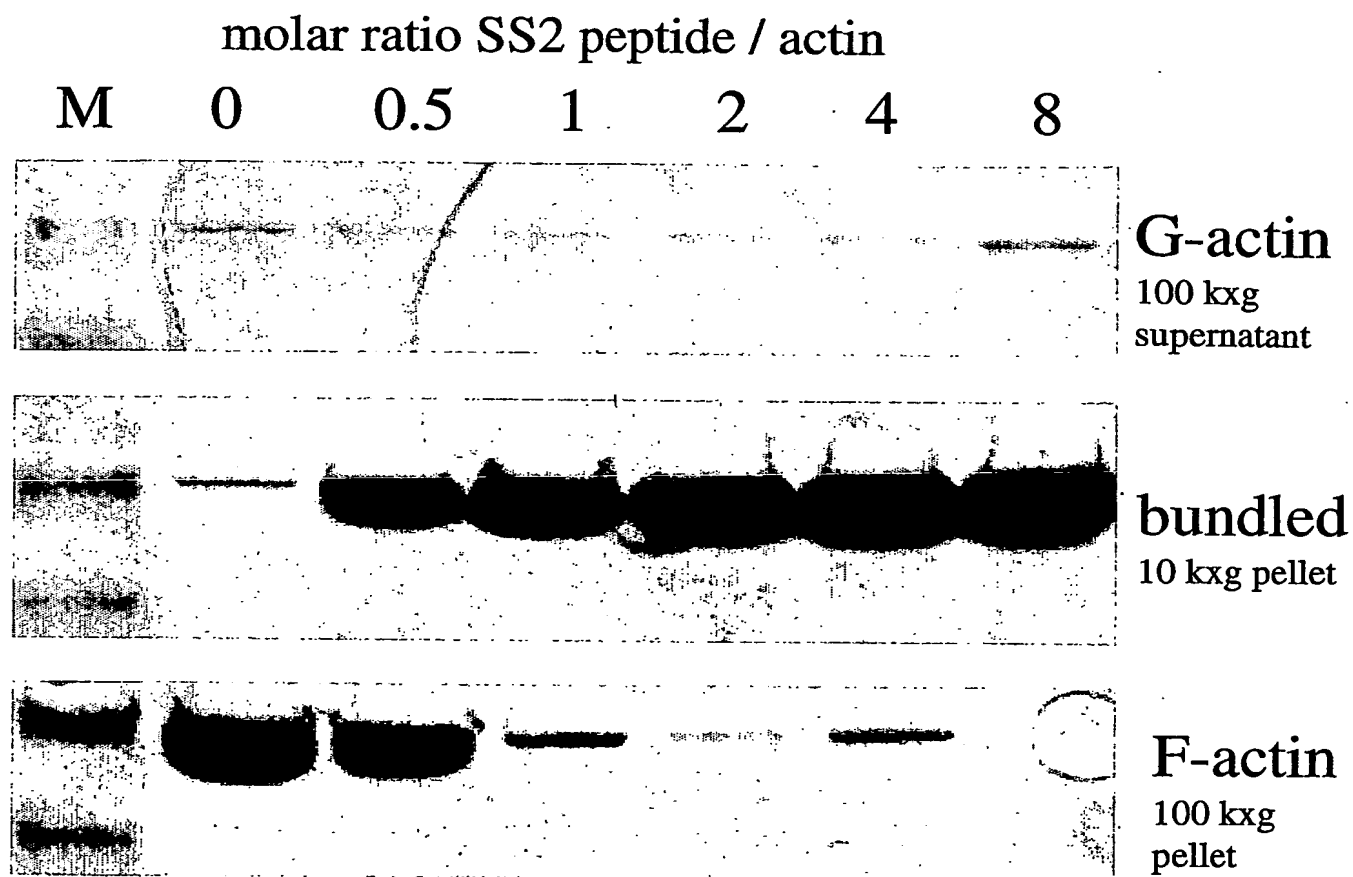
Fig. 6A

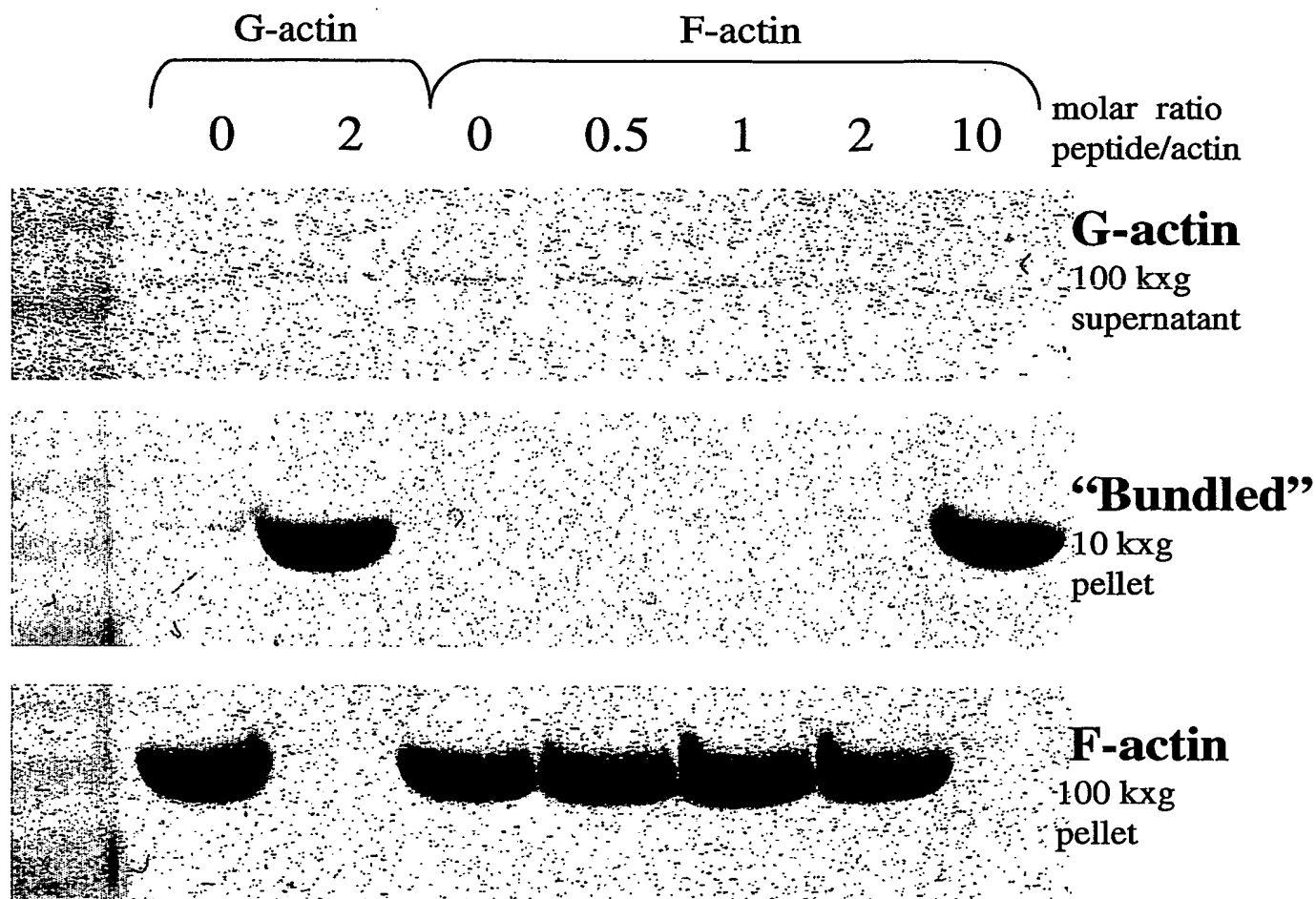
Fig. 6B**Effect of SS2 on polymerized
F-actin in vitro**

Fig. 6C

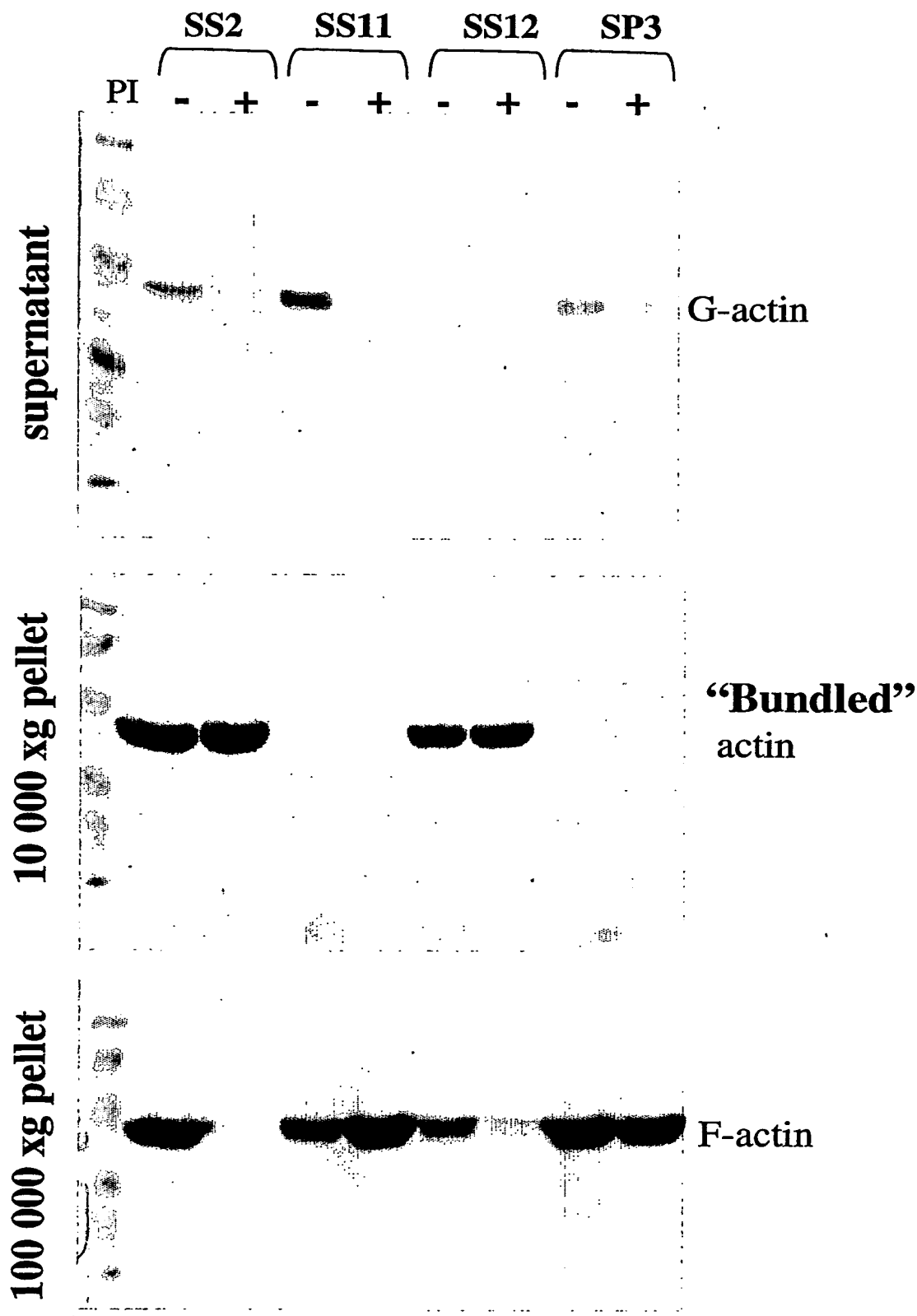


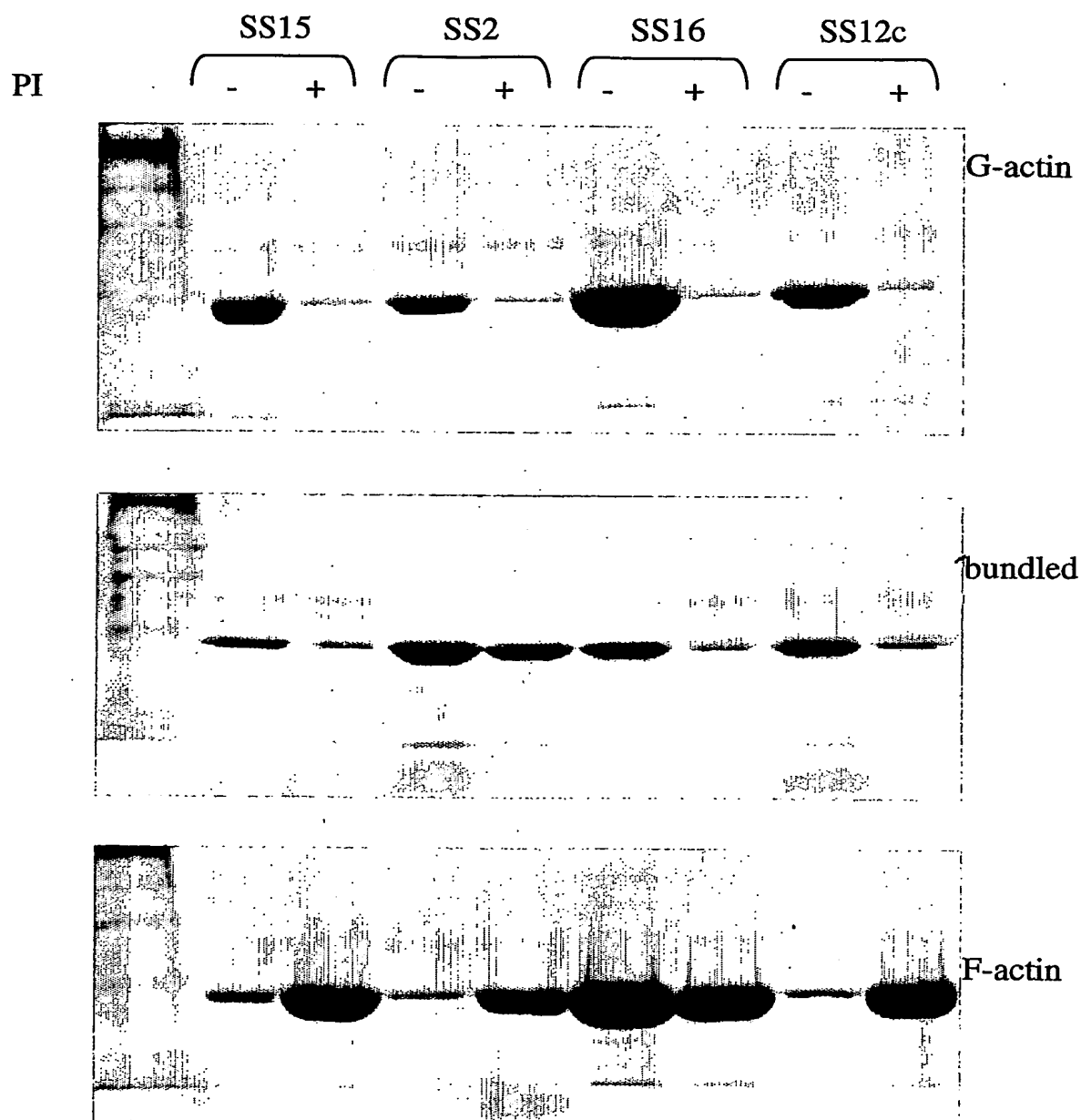
Fig. 6D

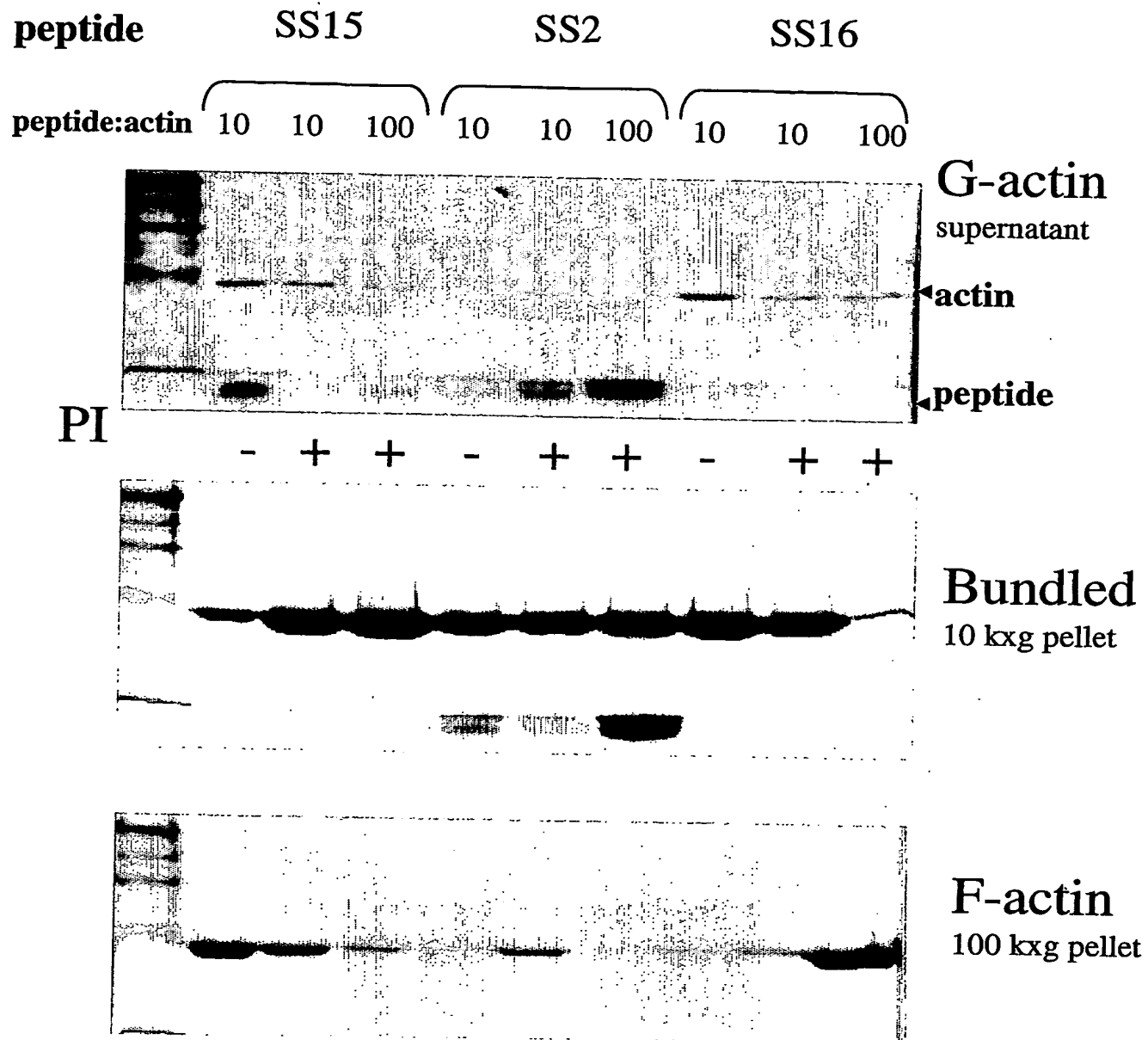
Fig. 6E

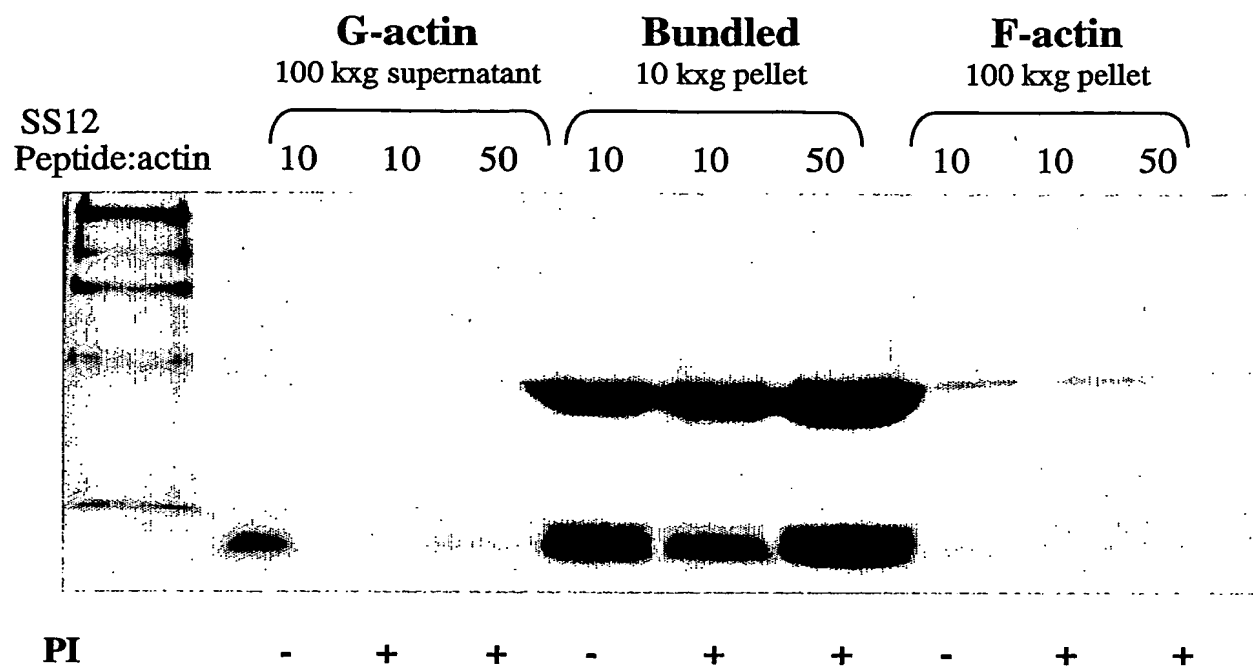
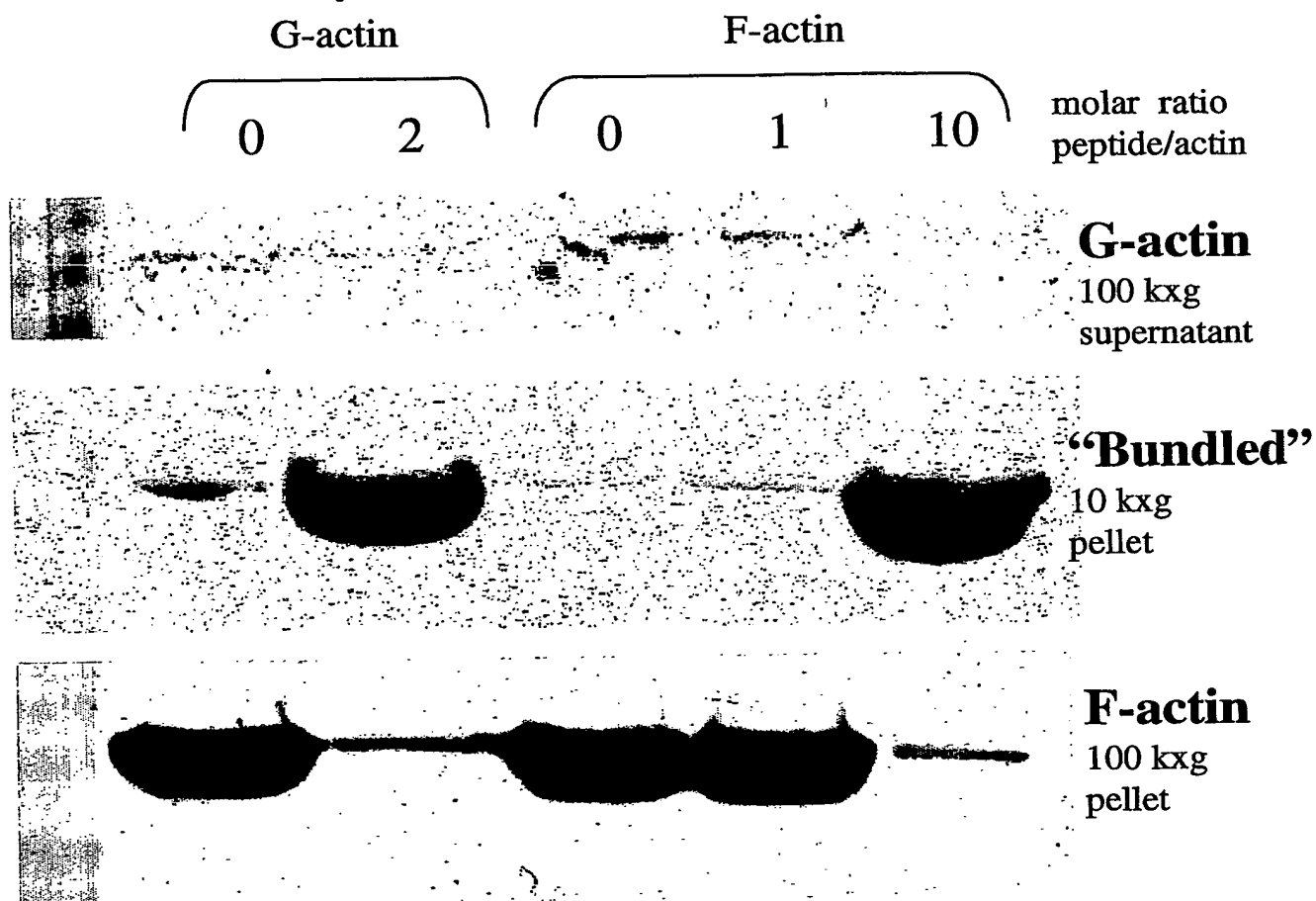
Fig. 6F

Fig. 7

SS2 bundling activity is not affected
by phalloidin



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